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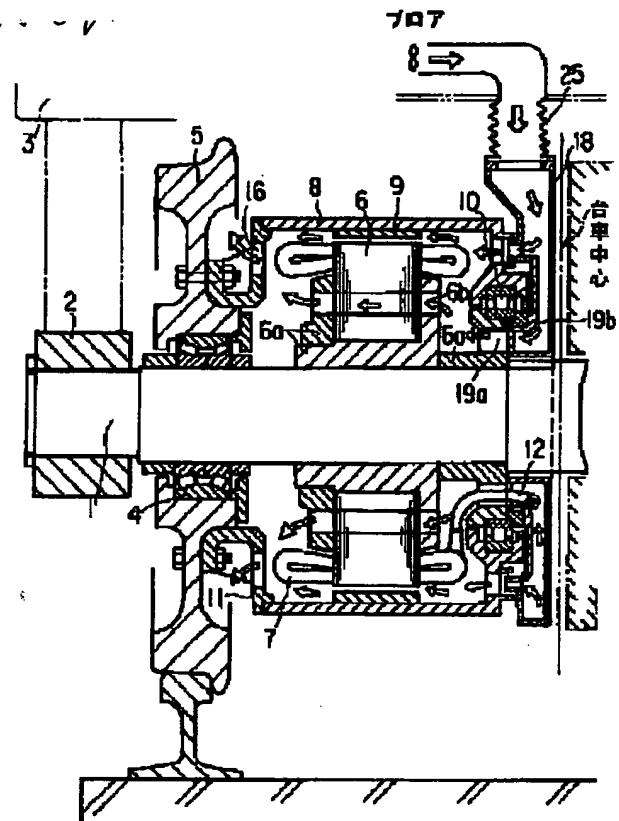
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TITLE : WHEEL INTEGRATED TYPE MOTOR



ABSTRACT : PROBLEM TO BE SOLVED: To cool respective parts in a motor effectively and increase output of motor by increasing draft amount.

SOLUTION: In this motor, which is of outer rotor type, a wheel 5 is supported at one end part of a shaft 1 through a bearing 4 so that it may rotate freely, and a stator iron core 6 is fitted onto the wheel 5 at the inner position of the wheel 5 through a stator member 60. A rotor frame 8 is disposed with a prescribed clearance at an external circumferential surface. An end part on wheel side is connected integrally with the wheel 1, and an end part on opposite wheel side is supported by a bearing 10 so that it may rotate freely. A cooling air duct 18 is supported outside the bearing 10 of the opposite wheel side by the stator member 60, and a plurality of first ventilating holes 6b which are communicated with the motor at the inner circumferential part and the stator member 60 are fitted respectively. The second ventilating holes 19a, 19b which are communicated with the motor at the end surface of the rotor frame 8 and the external circumferential part of the cooling air duct 18 are fitted respectively, and cooling air which is introduced from the upper part of the cooling air duct 18 is distributed into the motor through the first and second ventilating holes 6b, 19a, 19b.

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